SEQUENCE LISTING

<110> Hammond, Philip W.
Alpin, Julia
Wright, Martin C.

<120> Polypeptides Interactive with BCL-Xl

<130> 50036/050002

<150> US 60/274,526
<151> 2001-03-08

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Ala Ser Met Arg Gln Ala Glu Pro Ala Asp Met Arg Pro Glu Ile Trp
1 5 10 15
Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn Ala Tyr Tyr
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Ala Arg Glu
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Gly Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn Arg
1 5 10 15
Arg Lys

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Lys Leu Ser Glu Cys Leu Lys Arg Ile Gly Asp Glu Leu Asp Ser Asn
1 5 10 15
Met Glu Leu Gln Arg Met Ile Ala Ala Val Asp Thr Asp Ser Pro Arg
20 25 30

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Thr Gly Lys Glu Ala Ile Leu Arg Arg Leu Val Ala Leu Leu Glu Glu
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Glu Ala Glu Val Ile Asn Gln Lys Leu Ala Ser Asp Pro Ala Leu Arg
            20   25   30
Ser Lys Leu Val Arg Leu Ser Ser Asp Ser Phe Ala His Leu
        35   40   45

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Gln Arg Gly Met Leu Tyr Tyr Gln Thr Glu Lys Tyr Asp Leu Ala Ile
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Lys Asp Leu Lys Glu Ala Leu Ile Gln Leu Arg Gly Asn Asn
            20   25   30

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Gly Gly Glu Ser Asp Thr Asp Pro His Phe Gln Asp Ala Leu Met Gln
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Leu Ala Lys Ala Val Ala Ser Ala Ala Ala Ala Leu Val Leu Lys Ala
            20   25   30
Lys Ser Val Ala Gln Arg
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<400> 7
Gly Thr Arg Gln Asp Arg Met Phe Glu Thr Met Ala Ile Glu Ile Glu
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Gln Leu Leu Ala Arg Leu Thr Gly Val Asn Asp Lys Met Ala Glu Tyr
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Thr Asn Ala
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<400> 8
Ala Val Gln Glu Asp Pro Val Gln Arg Glu Ile His Gln Asp Trp Ala
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Asn Arg Glu Tyr Ile Glu Ile Ile Thr Ser Ser Ile Lys Lys Ile Ala
            20   25   30
Asp

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<213> Homo sapiens

<400> 9
Ala Thr Arg Gln Ala Leu Asn Glu Ile Ser Ala Arg His Ser Gly Ile
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Gln Gln Leu Glu Arg Ser Ile Arg Glu Leu His Asp Ile Phe Thr Phe
            20   25   30
Leu

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Met Phe Ser Asp Ile Tyr Gly Ile Arg Glu Ile Ala Asp Gly Leu Cys
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Leu Glu Val Glu Gly Lys Met Val Ser Arg Pro Glu
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Ala Ile Val Asn Ser Ile Lys Arg Ser
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<213> Homo sapiens

<400> 12
Met Lys Trp Asp Thr Asp Asn Thr Leu Gly Thr Glu Ile Ser Trp Glu
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            20   25   30
His His Val Leu His Ala Pro His
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<400> 13
Arg Gly Ala Val Phe Ser Gln Asp Lys Asp Val Val Gln Glu Ala Thr
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            20   25   30

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Thr Gly Thr Gly Ala Pro Arg Phe Ile Lys Glu Val Gln Glu Leu Asn
 1   5   10   15
Ser Ala Leu His Gln Ser Asp Leu Ile Asp Ile Tyr Arg Thr Leu His
            20   25   30
Pro

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<400> 15
Ser Asn Glu Leu Thr Arg Ala Val Glu Glu Leu His Lys Leu Leu Lys
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Glu Ala Arg Glu
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Thr Tyr Trp Asn Leu Leu Pro Pro Lys Arg Pro Ile Lys Glu Val Leu
1 5 10 15
Thr Asp Ile Phe Ala Lys Val Leu Glu Lys Gly Trp Val Asp Ser Arg
20 25 30
Ser

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<400> 17
Leu Phe Thr Ile Leu Leu Thr Leu Trp Thr Met Arg Cys Ser Ser Thr
1 5 10 15
Pro Ser Gly

<210> 18
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<213> Homo sapiens

<400> 18
Ala Gly Glu Asp Met Glu Ile Ser Val Lys Glu Leu Arg Thr Ile Leu
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Asn Arg Ile Ile Ser Lys His Lys Asp Leu Arg Thr
20 25

<210> 19
<211> 26
<212> PRT
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Asn Arg Leu Lys Gln Val Lys Gln Pro Ala
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20 25 30
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35 40 45
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50 55 60
Xaa Pro Leu
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Trp Glu Arg Ile Glu Glu Arg Leu Ala Tyr Ile Ala Asp His Leu Gly
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Phe Ser Trp Thr Glu Leu Ala Arg Ala Leu
20 25

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<212> PRT
<213> Homo sapiens

<400> 22
Ala Arg Gly Asp Phe Ala Gln Ala Ala Gln Gln Leu Trp Leu Ala Leu
1 5 10 15
Arg Ala Leu Gly Arg Pro Leu Pro Thr Ser His
20 25

<210> 23
<211> 30
<212> PRT
<213> Homo sapiens

<400> 23
Gly Ser Ser Lys Asp Leu Ala Lys His Ile Gln Val Val Cys Asp Gly
1 5 10 15
Met Asp Leu Thr Pro Lys Ile His Asp Leu Lys Pro Gln Cys
20 25 30

<210> 24
<211> 33
<212> PRT
<213> Homo sapiens

<400> 24
Gly Phe Leu Ala Ala Glu Gln Asp Ile Arg Glu Glu Ile Arg Lys Val

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 1               5                  10                  15
Val Gln Ser Leu Glu Gln Thr Ala Arg Glu Val Leu Thr Leu Leu Gln
            20                  25                  30
Gly
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<400> 25

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 1               5                  10                  15
Leu Trp Ala Ala Asp Asp Phe Leu Glu Asp Leu Pro Phe Glu Gln Ile
            20                  25                  30
Gly
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<210> 26
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<213> Homo sapiens

<400> 26

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Ala Asn Leu Leu Leu Leu Met Val Pro Ile Leu Ile Ala Met Ala Phe
 1               5                  10                  15
Leu Met Leu Thr Glu Arg Lys Ile Leu Gly Tyr Ile Gln Pro Arg
            20                  25                  30
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<210> 27
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<212> PRT
<213> Homo sapiens

<400> 27

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Leu Arg Leu Asn Thr Thr Val Trp Pro Thr Ile Ile Thr Pro Ile Leu
 1               5                  10                  15
Leu Thr Leu Phe Leu Ile Thr Asn Arg Leu Ile Thr Thr Arg
            20                  25                  30
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<210> 28
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<213> Homo sapiens

<400> 28

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Thr Leu Tyr Leu Lys Leu Thr Ala Leu Ala Val Thr Phe Leu Gly Leu
 1               5                  10                  15
Leu Thr Ala Leu Asp Leu Asn Tyr Pro Thr
            20                  25
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<210> 29
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Ala Gly Val Phe Ser Ala Glu Pro Ser Pro Phe Pro Gln Thr Arg Arg
 1   5   10   15
Ser Met Val Phe Ala Arg His Leu Arg Glu Val Gly Asp Glu Phe Arg
            20   25   30
Ser Arg His Leu Asn Ser Thr Asp Asp Ala Asp Glu
        35   40

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<212> PRT
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<400> 30
Gly Leu Lys Leu Ala Thr Val Ala Ala Ser Met Asp Arg Val Pro Lys
 1   5   10   15
Val Thr Pro Ser Ser Ala Ile Ser Ser Ile Ala Arg Glu Asn His Glu
            20   25   30
Pro Glu Arg Leu Gly Leu Asn Gly Ile Ala Glu Thr Thr
        35   40   45

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<212> PRT
<213> Homo sapiens

<400> 31
Met Arg Asp Leu Pro Gly His Tyr Tyr Glu Thr Leu Lys Phe Leu Val
 1   5   10   15
Gly His Leu Lys Thr Ile Ala Asp His Arg
            20   25

<210> 32
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<212> PRT
<213> Homo sapiens

<400> 32
Cys Gly Gly Arg Met Glu Asp Ile Pro Cys Ser Arg Val Gly His Ile
 1   5   10   15
Tyr Arg Lys Tyr Val Pro Tyr Lys Val Pro Ala Gly Val Ser Leu Ala
            20   25   30
Arg Asn Leu Lys Arg Val Ala Asp Trp Met
        35   40

<210> 33
<211> 37
<212> PRT
<213> Homo sapiens

<400> 33
Ala Leu Ser Trp Ile Glu Met Asp Thr Glu Met Glu Met Leu Leu Ala
 1   5   10   15
Arg Phe Arg Arg Thr Pro Gly Asp Leu His Leu Asp His Ser Val His
            20   25   30
Leu Cys Ala His Pro
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<400> 34
Thr Ser Thr Leu Pro His Ile Arg Arg Thr Arg
 1   5   10

<210> 35
<211> 12
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<400> 35
Asn Gly Asn Leu Phe Ala Ser Phe Ile Ala Asp Ser
 1   5   10

<210> 36
<211> 29
<212> PRT
<213> Homo sapiens

<400> 36
Ile Leu Thr Ser Pro Trp Thr Thr Ser Ser Gly Leu Trp Pro Arg Leu
 1   5   10   15
Gln Lys Ala Ala Glu Ala Phe Lys Gln Leu Asn Gln Pro
            20   25

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<212> PRT
<213> Homo sapiens

<400> 37
Arg Thr Leu Gln Pro Arg Leu Leu Gln Asn Gln Gln Gln His Leu Pro
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Ala Leu Pro Ile Trp Phe Leu Leu Gln Trp Leu Arg Leu His Pro Leu

20 25 30

<210> 38
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<213> Homo sapiens

<400> 38
Met Ala Val Ile Ile Asn Glu Leu Ser Gln Arg Asp Ser Cys Gly Pro
1 5 10 15
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20 25 30
Ser Ser Phe Thr Pro
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<210> 39
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<400> 39
Gly Leu Ala Lys Lys Ser Lys Arg Asn Pro Ala Asn Leu Thr Pro Pro
1 5 10 15

<210> 40
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<213> Homo sapiens

<400> 40
Ser Ser Gln Ala Leu Arg Ile His Gln Trp Leu His Leu Phe Ser Asp
1 5 10 15
Phe Thr Ser Thr
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<210> 41
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<212> PRT
<213> Homo sapiens

<400> 41
Gly Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn Arg
1 5 10 15
Arg Lys

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<211> 26
<212> PRT
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<400> 42
Gly Val Ser Glu Ala Glu Gly Thr Phe Pro Leu Ser Thr Phe Leu Leu
 1   5   10   15
Gly Ile Ala Ser Arg Leu Arg Ser Val Ala
            20   25

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<212> PRT
<213> Homo sapiens

<400> 43
Arg Ala Pro Arg Phe Ile Lys Gln Ile Leu Leu Asp Leu Lys Arg Glu
 1   5   10   15
Ile Asp Phe Asn Val Arg Leu Val Glu Tyr Phe Asn Pro Leu Ser
            20   25   30

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<213> Homo sapiens

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Ile Val Ala Ile Ile Ala Gly Arg Leu Arg Met Leu Gly Asp Gln Phe
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Asn Gly Glu Leu Glu Ala Ser Ala Lys Asn
            20   25

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<400> 45
Leu Ala Leu Ala Tyr Tyr Ser Ser Arg Gln Tyr Ala Ser Ala Leu Lys
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His Ile Ala Glu Ile Ile Glu Arg Gly Ile Arg Gln His
            20   25

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<212> PRT
<213> Homo sapiens

<400> 46
Ala Ala Met Leu Leu Asp Arg Arg Gly Thr Glu Cys Asp Leu Trp Ile
 1   5   10   15
Asn Glu Met Ser Leu Leu His Lys Ile Val Gln Asp Val Tyr Gly Thr
            20   25   30
Pro His Pro Pro His Ser
        35

<210> 47
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<212> PRT
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<400> 47
Pro Trp Gln Tyr Lys Pro Ile Ala Asp Leu Tyr Arg Gly Arg Glu Ser
 1   5   10   15
Arg Pro Ser Ala Pro Arg
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<211> 18
<212> PRT
<213> Homo sapiens

<400> 48
Leu Phe Ser Val Leu Leu Arg Tyr Leu Ala Asp Asn Phe Leu Pro Gly
 1   5   10   15
Gly Ser

<210> 49
<211> 18
<212> PRT
<213> Homo sapiens

<400> 49
Asp Trp Gln Val Leu Leu Gly Lys Leu Leu Trp Lys Ile Asp Asn Pro
 1   5   10   15
Gly Ile

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<400> 50
Gly Ala Met Glu Arg Glu Trp Ala Met Phe Leu Arg Ala Ala Ser Ser
 1   5   10   15
Arg Ile Arg Gly Gly Val
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<210> 51
<211> 24
<212> PRT
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<400> 51

Val His Asn Phe Gly Arg His Trp Gly Leu Pro Leu Ser Phe Leu Leu
1 5 10 15
Asn Tyr Pro Leu Phe Leu Ser Pro
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<210> 52
<211> 40
<212> PRT
<213> Homo sapiens

<400> 52
Ala Ser Met Ala Pro Val Gly Arg Asp Ala Glu Thr Leu Gln Lys Gln
1 5 10 15
Lys Glu Thr Ile Lys Ala Phe Leu Lys Lys Leu Glu Ala Leu Met Ala
20 25 30
Ser Asn Asp Asn Ala Asn Lys Thr
35 40

<210> 53
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<212> PRT
<213> Homo sapiens

<400> 53
Cys Arg Glu Gln Ala Glu Leu Thr Gly Leu Arg Leu Ala Ser Leu Gly
1 5 10 15
Leu Lys Phe Asn Lys Ile Val His Ser Ser Met Thr Arg Ala Ile Glu
20 25 30
Thr

<210> 54
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<400> 54
Gly Thr Arg Ile Ser Asp Met Leu Lys Leu Ile Ala Asp Thr Trp Gln
1 5 10 15
Arg Asn Cys Cys Pro Ala
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Glu Gln Ala Ser Val Lys Tyr Val Ile Leu Asp Met Tyr Arg Ala Leu
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Leu Thr Leu Met Asn Thr Ser Thr Ala Thr

20 25

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<400> 56
Glu Asp Leu Glu Ser Val Leu Ile Arg Leu Ile Asn Trp Ala Lys Gly
1 5 10 15
Ser Pro Ile Pro
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<212> PRT
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<400> 57
Arg Pro Val Ser Phe Cys Gly Ala Val Trp Thr Leu Asn Arg Ala Ile
1 5 10 15
Gly Arg His Phe Val Arg Gly Ser Arg
20 25

<210> 58
<211> 29
<212> PRT
<213> Homo sapiens

<400> 58
His Ala Val Val Ala Arg Leu Leu His Ile Gly Ala Ile Met Phe Gln
1 5 10 15
Arg Leu Asp Phe Ile Glu Gln Leu Ser Ala Pro Pro Ala
20 25

<210> 59
<211> 31
<212> PRT
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<400> 59
Gly Gln Gly Thr Leu Trp Gly Ser Gly Met Glu Ala Trp Leu Ala Thr
1 5 10 15
Val Leu Lys Ala Leu Pro Trp His Pro Thr Tyr Gln Leu Glu Pro
20 25 30

<210> 60
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<400> 60
Ile Ala Gln Ala Thr Lys Ala Thr Ile Asp Lys Trp Asn Cys Ile Lys
1 5 10 15
Leu Lys Ile Phe Tyr Thr Ser Lys Lys Glu Ala Ser
20 25

<210> 61
<211> 22
<212> PRT
<213> Homo sapiens

<400> 61
Val Val Asp Val Pro Asp Phe Ile Val Trp Leu Glu Glu Ala Val Ser
1 5 10 15
Asp Leu His Arg Ala Leu
20

<210> 62
<211> 39
<212> PRT
<213> Homo sapiens

<400> 62
Gln Arg Arg Gly Asn Glu Phe Gln Leu Arg Asp Leu Ala Asp Ala Trp
1 5 10 15
Asp Leu Ser Ser Arg Ser Arg Gln Arg Gly Trp Gln Met Pro Asn Cys
20 25 30
Arg Ser Arg Arg Gly Pro Gly
35

<210> 63
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<400> 63
Arg Gly Leu Trp Val Asp Arg Val Leu Glu Glu Trp Gly Leu Glu Pro
1 5 10 15
Arg Gln

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<400> 64
Phe Val Arg Ser Val Gly Trp Arg Leu Gln Asn Ile Gly Asp Asp Met
1 5 10 15
Asp His Ala Ile Cys Gly His Asp Val Arg Leu Gly
20 25

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<400> 65
Ser Gly Leu Arg Lys Pro Thr Cys Gly Ser Ser Gln Arg
 1   5   10

<210> 66
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<400> 66
Ala Gly Thr Gln Pro Leu Ile Leu Ala Gln Phe Met Arg Val Gly Gly
 1   5   10   15
Asp Glu Leu Leu His Phe Leu Leu Trp
            20   25

<210> 67
<211> 32
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<213> Homo sapiens

<400> 67
Met Asp Thr Ile Lys Gly Phe Asp Leu Ile Thr Asn Phe Gln Val Val
 1   5   10   15
Ala Asp Ala Leu Asn Ile Ser Leu Leu Pro Asn Pro Leu Ala Thr Ala
            20   25   30

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<400> 68
Ala Thr Trp Met Lys Thr Leu Gln Gly Leu Leu Asp Arg Ile Gln Ala
 1   5   10   15
Phe Pro Ser Ser Pro His
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<212> PRT
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<400> 69
Glu Ala Asn Arg Lys Gln Pro Lys Pro Asn Asn Ser Ser Thr Ala Tyr
 1   5   10   15

Tyr Asn Phe Thr Gly Val Ser Ile Leu Pro Ser Tyr Lys Pro
20 25 30

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<212> PRT
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<400> 70
Gly Ser Leu Thr His His Ile Asn Asn Ile Lys Pro Ser Ser Thr Arg
1 5 10 15

<210> 71
<211> 28
<212> PRT
<213> Homo sapiens

<400> 71
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20 25

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gtattggaga cgagtttaac gcctactatg caagggagga ttacaaagac gatgacgata 180
aggcatccgc tatttaaaa 199

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<211> 126
<212> DNA
<213> Homo sapiens

<400> 73
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ggggacgaca tcaaccgacg gaaagattac aaagacgatg acgataaggc atccgctatt 120
aaaaaa 126

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<212> DNA
<213> Homo sapiens

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tggacagtaa catggagctg cagaggatga ttgccgccgt ggacacagac tccccccgag 120

attacaaaga cgatgacgat aaggcatccg ctattaaaaa 160

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<212> DNA
<213> Homo sapiens

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aggaagccat actgcggagg ctggtggccc tgctggagga ggaggcagaa gtcattaacc 120
agaagctggc ctcggacccc gccctgcgca gcaagctggt ccgcctgtcc tccgactctt 180
tcgcccacct ggattacaaa gacgatgacg ataaggcatc cgctatttaa aa 232

<210> 76
<211> 172
<212> DNA
<213> Homo sapiens

<400> 76
gactcactat agggacaatt actatttaca attcttactt ccaacgaggg atgctctact 60
accagacaga gaaatatgat ttggctatca aagaccttaa agaagccttg attcagcttc 120
gagggaacaa tgattacaaa gacgatgacg ataaggcatc cgctatttaa aa 172

<210> 77
<211> 208
<212> DNA
<213> Homo sapiens

<400> 77
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aaagtgatac tgacccccac ttccaggatg cgctaatgca gctcgccaaa gctgtggcaa 120
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atgacgatag ggcatccgct atttaaaa 208

<210> 78
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<400> 78
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gccaagacag aatgtttgag acaatggcga ttgagattga acaacttttg gcaaggctta 120
caggggtaaa tgataaaatg gcagaatata ccaacgctga ttacaaagac gatgacgata 180
aggcatccgc tatttaaaa 199

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<400> 79
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accaggactg ggctaaccgg gagtacattg agataatcac cagcagcatc aagaaaatcg 120
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a 181

<210> 80
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<212> DNA
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<400> 80
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atggcgactc 60
gacaggcctt aaatgagatc tcggcccggc acagtgggat ccagcagctt gaacgcagta 120
ttcgtgagct gcacgacata ttcacttttc tggctaccga agtgcgagat tacaaagacg 180
atgacgataa ggcatccgct atttaaaa 208

<210> 81
<211> 178
<212> DNA
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<400> 81
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgatgttct 60
ccgacatcta cgggatccgg gagatcgcgg acgggttgtg cctggaggtg gaggggaaga 120
tggtcagtag gccagaggat tacaaagacg atgacgataa ggcatccgct atttaaaa 178

<210> 82
<211> 169
<212> DNA
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<400> 82
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atgttttggc 60
tggaagaaag ggactttgag gcgggtgttt ttgaactaga agcaattgtt aacagcatca 120
aaagaagcga ttacaaagac gatgacgata aggcatccgc tatttaaaa 169

<210> 83
<211> 214
<212> DNA
<213> Homo sapiens

<400> 83
taatacgact cactataggg acaattacta tttacaattc ttacttcaat acaatgaaat 60
gggacacaga caatactcta gggacagaaa tctcttggga gaataagttg gctgaagggt 120
tgaaactgac tcttgatacc atatttgtac atcacgtcct gcatgcccca cacgattaca 180
aagacgatga cgataaggca tccgctattt aaaa 214

<210> 84
<211> 187
<212> DNA
<213> Homo sapiens

<400> 84
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgcgggggg 60
cagtgttctc ccaggataag gacgtcgtgc aggaggccac aaaggtgctg aggaatgctg 120
ccgacaactt ctacatcaac gacagggatt acaaagacga tgacgataag gcatccgcta 180
tttaaaa 187

<210> 85
<211> 190

<212> DNA
<213> Homo sapiens

<400> 85
gactcactat agggacaatt actatttaca attctcctaa cacaatgacc ggtacaggag 60
cacccagatt cataaaggaa gtccaggaat tgaactcagc tctacatcaa tcggacctaa 120
tagacatcta cagaactctc caccccgctg attacaaaga cgatgacgat aaggcatccg 180
ctatttaaaa 190

<210> 86
<211> 130
<212> DNA
<213> Homo sapiens

<400> 86
tttacaattc tcctaacaca atgacaaaga gcaatgaact aacccgggca gtagaggaac 60
tacacaaact tttgaaagaa gctagggaag attacaaaga cgatgacgat aaggcatccg 120
ctatttaaaa 130

<210> 87
<211> 199
<212> DNA
<213> Homo sapiens

<400> 87
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atgacctact 60
ggaacctgct gccccccaag cggcccatca aagaggtgct gacggacatc tttgccaagg 120
tgctggagaa gggctgggtg gacagccgct ccatccacga ttacaaagac gatgacgata 180
aggcatccgc tatttaaaa 199

<210> 88
<211> 97
<212> DNA
<213> Homo sapiens

<400> 88
ctatttacaa ttctcctaac actatggact atgagatgct cttcaactcc ttcagggatt 60
acaaagacga tgacgataag gcatccgcta ttaaaaa 97

<210> 89
<211> 178
<212> DNA
<213> Homo sapiens

<400> 89
taatacgact cactataggg acaattacta tttacaattc tttctctaca atggccgggg 60
aggacatgga gatcagcgtg aaggagttgc ggacaatcct caataggatc atcagcaaac 120
acaaagacct gcggaccgat tacaaagacg atgacgataa ggcatccgct atttaaaa 178

<210> 90
<211> 172
<212> DNA
<213> Homo sapiens

<400> 90

taatacgact cactataggg acaattacta tttacaattc tcctaacaca atgggactaa 60
gagaagaaag tgaagagtac atggctgctg ctgatgaata caatagactg aagcaagtga 120
agcaacctgc agattacaaa gacgatgacg ataaggcatc cgctatttaa aa 172

<210> 91
<211> 318
<212> DNA
<213> Homo sapiens

<400> 91
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgaagggca 60
tcatcagcag gttgatgtcc gtggaggaag aactgaagag ggaccacgca gagatgcaag 120
cggctgtgga ctccaaacag aagatcattg atgcccagga gaagcgcatt gcctcgttgg 180
atgccgccaa tgcccgcctc atgagtgccc tgacccagct gaaagagagg tacagcatgc 240
aagcccgtaa cggcatctcc cccaccaacc ccgcggatta caaagacgat gacgataagg 300
catccactat ttaaaaaa 318

<210> 92
<211> 172
<212> DNA
<213> Homo sapiens

<400> 92
taatacgact cactataggg acaaatacta tttacaattc tcctaacaca atgtgggaac 60
ggattgagga aaggctggct tatattgctg atcaccttgg cttcagctgg acagaattag 120
caagagcgct ggattacaaa gacgatgacg ataaggcatc cgctatttaa aa 172

<210> 93
<211> 177
<212> DNA
<213> Homo sapiens

<400> 93
taatacgact cactataggg gacaattact atttacaatt gcttacttca caatggctcg 60
gggagacttt gcccaggctg cccagcagct gtggctggcc ctgcgggcac tgggccggcc 120
cctgcccacc tcccacgatt acaaagacga tgacgataag gcatccgcta tttaaaa 177

<210> 94
<211> 160
<212> DNA
<213> Homo sapiens

<400> 94
taatacgact cactataggg acaattacta tttacaattc tttctctaca atggtggtgg 60
atgtgccaga ttttatagtc tggcttgagg aggcagtatc tgatttacat agggccctcg 120
attacaaaga cgatgacgat aaggcatccg ctatttaaaa 160

<210> 95
<211> 170
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 167

<223> n = A,T,C or G

<400> 95
cttttacaat tctcctaaca caatgggctt tttggctgcc gagcaggaca tccgagagga 60
aatcagaaaa gttgtacaga gtttagaaca aacagctcga gaggttttaa ctctactgca 120
aggggtccag gattacaaag acgatgacga taaggcatcc gctaagnaaa 170

<210> 96
<211> 227
<212> DNA
<213> Homo sapiens

<400> 96
ttaatacgac tcactatagg gattactatt tacaattctt acttcacaat gctggaccct 60
gtaaaggatg ttctaattct ttctgctctg agacgaatgc tatgggctgc agatgacttc 120
ttagaggatt tgcctttga gcaaatagg aatctaaggg aggaaattat caactgtgca 180
caagcggatt acaaagacga tgacgataag gcatccgcta tttaaaa 227

<210> 97
<211> 161
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 158
<223> n = A,T,C or G

<400> 97
ttctatttac aattctccta acacaatggc caacctccta ctcctcatgg tacccattct 60
aatcgcaatg gcattcctaa tgcttaccga acgaaaaatt ctaggctata tacaaccacg 120
cgattacaaa gacgatgacg ataaggcatc cgctaaanaa a 161

<210> 98
<211> 149
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16
<223> n = A,T,C or G

<400> 98
aattctccta acacantgct ccggctaaat actaccgtat ggcccaccat aattaccccc 60
atactcctta cactattcct catcaccaac cgactaatca ccacccggga ttacaaagac 120
gatgacgata aggcatccgc tatttaaaa 149

<210> 99
<211> 146
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 140
<223> n = A,T,C or G

<400> 99
ctatttacaa ttctcctaac acaatgaccc tctacctaaa actcacagcc ctcgctgtca 60
ctttcctagg acttctaaca gccctagacc tcaactaccc aaccgattac aaagacgatg 120
acgataaggc atccgctatn aaaaaa 146

<210> 100
<211> 226
<212> DNA
<213> Homo sapiens

<400> 100
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atggcgggcg 60
tgttctcagc cgagccgtcg ccgtttccac agacccgtcg cagcatggtg tttgccaggc 120
acctgcggga ggtgggagac gagttcagga gcagacatct caactccacg gacgacgcag 180
acgaggatta caaagacgat gacgataagg catccgctat ttaaaa 226

<210> 101
<211> 229
<212> DNA
<213> Homo sapiens

<400> 101
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgggcttaa 60
aacttgccac agttgctgcc agtatggaca gagtgccaaa ggttactccc agcagtgcca 120
tcagcagcat agcaagagag aaccacgaac cagaaagatt gggcttaaat ggaatagcag 180
agacaacaga ttacaaagac gatgacgata aggcatccgc tatttaaaa 229

<210> 102
<211> 172
<212> DNA
<213> Homo sapiens

<400> 102
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atgatgcggg 60
atctcccagg acactactat gaaacgctca aattccttgt gggccatctc aagaccatcg 120
ctgaccaccg cgattacaaa gacgatgacg ataaggcatc cgctatttaa aa 172

<210> 103
<211> 225
<212> DNA
<213> Homo sapiens

<400> 103
taatacgact cactataggg acaattacta tttacaattc tttctctagg tgtggatgtg 60
tgggggccgc atggaggaca tcccctgctc cagggtgggc catatctaca ggaagtatgt 120
gccctacaag gtcccggccg gagtcagcct ggcccggaac cttaagcggg tggccgattg 180
gatggattac aaagacgatg acgataaggc atccgctatt taaaa 225

<210> 104
<211> 205
<212> DNA
<213> Homo sapiens

<400> 104
taatacgact cactataggg acaattacta tttacaattc tttctctaca atggcgctta 60
gttggatcga aatggacacc gagatggaga tgcttctggc tagatttcgc agaaccccag 120
gagacctgca tttagaccac tctgtccatt tgtgtgccca ccccgattac aaagacgatg 180
acgataaggc atccgctatt taaaa 205

<210> 105
<211> 101
<212> DNA
<213> Homo sapiens

<400> 105
ctatttacaa ttctcctaac acaatgacct ccaccctacc acacattcga agaacccgtg 60
attacaaaga cgatgacgat aaggcatccg ctatttaaaa a 101

<210> 106
<211> 130
<212> DNA
<213> Homo sapiens

<400> 106
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atgaacggaa 60
atctgttcgc ttcattcatc gccgacagtg attacaaaga cgatgacgat aaggcatccg 120
ctatttaaaa 130

<210> 107
<211> 164
<212> DNA
<213> Homo sapiens

<400> 107
taatacgact cactataggg acaattacta tttacaattc ttacttcgcc ctggacgaca 60
tcgagtggtt tgtggccccg gctgcagaag gcagccgagg ctttcaagca gctgaaccag 120
cccgattaca aagaccatga cgataaggca tccgctattt aaaa 164

<210> 108
<211> 192
<212> DNA
<213> Homo sapiens

<400> 108
taatacgact cctataggga caattactat ttacaattct tacttcaata caatgcgcac 60
cctgcaaccc aggcttcttc aaaaccaaca acagcacctg ccagccctgc ccatatggtt 120
cctactccaa tggctcagac tgcacccgct ggattacaaa gacgatgacg ataaggcatc 180
cgctatttaa aa 192

<210> 109
<211> 210
<212> DNA
<213> Homo sapiens

<400> 109
taatacgact cactataggg acaattacta tttacaattc tcctaacgcc aaagcacaat 60
ggctgttata attaacgaat tatctcagcg tgacagctgt ggtcctttga aaattagctt 120
gaataacaag atcctggtgt atggtaattt attttcctct ttcacccccg attacaaaga 180

cgatgacgat aaggcatccg ctatttaaaa 210

<210> 110
<211> 109
<212> DNA
<213> Homo sapiens

<400> 110
caattctcct aacacgatgg gactggctaa aaaaagtaaa aggaacccgg caaatcttac 60
cccgcctgat tacaaagacg atgacgataa ggcatccgct atttaaaaa 109

<210> 111
<211> 131
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 125, 126
<223> n = A,T,C or G

<400> 111
natttctatt tacaattctc ctaacacaat gagctcacag gcacttagaa tccatcagtg 60
gctccatctt ttctcagact tcacctccac cgattacaaa gacgatgacg ataaggcatc 120
cgctnnaaaa a 131

<210> 112
<211> 172
<212> DNA
<213> Homo sapiens

<400> 112
taatacgact cactataggg acaattacta tttacaattc tttctctaca atggaccaac 60
ccataggaaa atgggaaaag ttgttcccgt tacaacttta caaaacgtta caaatgctca 120
tgtcccagat ggattacaaa gacgatgacg ataaggcatc cgctatttaa aa 172

<210> 113
<211> 172
<212> DNA
<213> Homo sapiens

<400> 113
taatacgact cactataggg acaattacta tttacaattc ttacttcaca atgggggtct 60
ctgaggccga gggaacattc ccgctcagca ctttccttct tgggatagca tcccgtctaa 120
gaagcgtggc tgattacaaa gacgatgacg ataaggcatc cgctatttaa aa 172

<210> 114
<211> 187
<212> DNA
<213> Homo sapiens

<400> 114
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atgagggcgc 60
ccagattcat aaagcaaata ttgctagatc taaagagaga gatagacttc aatgtgagat 120
tagtagaata cttcaaccca ctatcagatt acaaagacga tgacgataag gcatccgcta 180

tttaaaa 187

<210> 115
<211> 172
<212> DNA
<213> Homo sapiens

<400> 115
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgatcgtgg 60
ctatcattgc tggtcgcctt cggatgttgg gtgaccagtt caacggagaa ttggaagctt 120
ctgccaaaaa cgattacaaa gacgatgacg ataaggcatc cgctatttaa aa 172

<210> 116
<211> 180
<212> DNA
<213> Homo sapiens

<400> 116
taatacgact cactataggg acaattacta tttacaattc tttctctaca acctggcttt 60
ggcctattac agcagccgac agtatgcttc agcactgaag catatcgctg agattattga 120
gcgtggcatc cgccagcacg attacaaaga cgatgacgat aaggcatccg ctatttaaaa 180

<210> 117
<211> 208
<212> DNA
<213> Homo sapiens

<400> 117
taatacgact cactataggg acaattacta tttacaattc tttctctacg atggctgcca 60
tgttattaga cagaagagga actgagtgtg acctctggat aaatgagatg tcactattac 120
ataagattgt tcaagatgta tatggaactc ctcacccgcc ccactccgat tacaaagacg 180
atgacgataa ggcatccgct atttaaaa 208

<210> 118
<211> 160
<212> DNA
<213> Homo sapiens

<400> 118
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atgccttggc 60
aatacaaacc gatagctgat ctttacagag ggagagagag ccgtccctct gccccccggg 120
attacaaaga cgatgacgat aaggcatccg ctatttaaaa 160

<210> 119
<211> 148
<212> DNA
<213> Homo sapiens

<400> 119
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgctgttct 60
cagtgttgct acgttatttg gcagataact ttctgccagg aggatccgat tacaaagacg 120
atgacgataa ggcatccgct atttaaaa 148

<210> 120

<211> 147
<212> DNA
<213> Homo sapiens

<400> 120
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atggattggc 60
aggtgttgct aggaaaacta ctttggaaaa tagataatcc gggcatcgat tacaaagacg 120
atgacgatag gcatccgcta tttaaaa 147

<210> 121
<211> 160
<212> DNA
<213> Homo sapiens

<400> 121
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgggtgcta 60
tggagagaga atgggcgatg tttctcaggg ctgcttcaag caggattagg ggtggcgtgg 120
attacaaaga cgatgacgat aaggcatccg ctgtttaaaa 160

<210> 122
<211> 140
<212> DNA
<213> Homo sapiens

<400> 122
ctatttacaa ttctcctaac acaatggtgc ataactttgg gagacactgg ggtctgccct 60
tgagttttct tctcaattac cctttattcc tcagtccgga ttacaaagac gatgacgata 120
aggcatccgc tattaaaaaa 140

<210> 123
<211> 211
<212> DNA
<213> Homo sapiens

<400> 123
taatacgact cactatagga aatactattt acaattctta cttcacaatg gctagcatgg 60
ctccagtggg gagagatgca gaaacattgc aaaagcaaaa ggaaactata aaagcctttc 120
taaagaaact agaagccctc atggcaagca atgacaatgc caataaaacc gatgacaaag 180
acgatgacga taaggcatcc gctatttaaa a 211

<210> 124
<211> 196
<212> DNA
<213> Homo sapiens

<400> 124
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgtgtcggg 60
agcaggctga actcactggg ctccgcctgg caagcttggg gttgaagttt aataaaatcg 120
tccattcgtc tatgacgcgc gccatagaga ccaccgatta caaagacgat gacgataagg 180
catccgctat ttaaaa 196

<210> 125
<211> 161
<212> DNA
<213> Homo sapiens

<400> 125
taatacgact cactataggg gacaattact atttacaatt cttacttcac aatgggcact 60
agaattagtg atatgctaaa attaattgca gacacatggc agagaaattg ttgccctgcg 120
gattacaaag acgatgacga taaggcatcc gctatttaaa a 161

<210> 126
<211> 172
<212> DNA
<213> Homo sapiens

<400> 126
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atggagcagg 60
ccagtgttaa gtatgttatt ctggatatgt acagagcact cttgacacta atgaatactt 120
caacagccac agattacaaa gacgatgacg ataaggcatc cgctatttaa aa 172

<210> 127
<211> 120
<212> DNA
<213> Homo sapiens

<400> 127
caattctcct aacacaatgg aagacctaga gagtgtgtta ataagactga tcaactgggc 60
aaaaggaagc cccatcccag attacaaaga cgatgacgat aaggcatccg ctatttaaaa 120

<210> 128
<211> 169
<212> DNA
<213> Homo sapiens

<400> 128
taatacgact cactataggg acaattacta tttacaattc tcctaacaca atgaggccgg 60
tgtccttttg cggggctgtt tggactctga acagggcaat aggaaggcat tttgtccgag 120
gtagcaggga ttacaaagac gatgacgata aggcatccgc tatttaaaa 169

<210> 129
<211> 181
<212> DNA
<213> Homo sapiens

<400> 129
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgcacgcgg 60
tggtggcacg tttgcttcac attggggcaa tcatgttcca acgactagac ttcatagaac 120
aattgtctgc acccccagcg gattacaaag acgatgacga taaggcatcc gctatttaaa 180
a 181

<210> 130
<211> 159
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 155
<223> n = A,T,C or G

<400> 130
cttttacaat tctcctaaca caatgggcca aggtacactt tggggaagtg ggatggaagc 60
atggttggca acggtgttga aggcactccc ttggcacccc acataccagc tggagccgga 120
ttacaaagac gatgacgata aggcatccgc tatanaaaa 159

<210> 131
<211> 148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 147
<223> n = A,T,C or G

<400> 131
ttctatttac aattctccta acacaatgat agcacaggca acgaaagcaa caatagacaa 60
atggaactgc atcaaactta aaatcttcta cacctcaaag aaagaagcca gcgattacaa 120
agacgatgac gataaggcat ccgctant 148

<210> 132
<211> 160
<212> DNA
<213> Homo sapiens

<400> 132
taatacgact cactataggg acaattacta tttacaattc tttctctaca atggtggtgg 60
atgtgccaga ttttatagtc tggcttgagg aggcagtatc tgatttacat agagccctcg 120
attacaaaga cgatgacgat aaggcatccg ctatttaaaa 160

<210> 133
<211> 211
<212> DNA
<213> Homo sapiens

<400> 133
taatacgact cactataggg acaattacta tttacaattc tttctctaca atgcagagga 60
gagggaatga attccagctg agagacctgg ccgatgcatg ggatttgtct tcaaggtcca 120
ggcagagggg atggcagatg ccaaattgca gaagtcgaag agggcccgga gattacaaag 180
acgatgacga taaggcatcc gctatttaaa a 211

<210> 134
<211> 118
<212> DNA
<213> Homo sapiens

<400> 134
tttacaattc tcctaacaca atgcggggcc tgtgggtgga cagggtccta gaggaatggg 60
gcctggaacc gcggcaggat tacaaagacg atgacgataa ggcatccgct attaaaaa 118

<210> 135
<211> 179
<212> DNA
<213> Homo sapiens

<400> 135
taatacgact cactataggg acaattacta tttacaattc tttactctac aatgttcgtg 60
aggtctgttg gctggaggct gcagaacatt ggtgatgaca tggaccacgc catttgtggc 120
catgatgtca ggctcggcga ttacaaagac gatgacgata aggcatccgc tatttaaaa 179

<210> 136
<211> 82
<212> DNA
<213> Homo sapiens

<400> 136
gcagtggact cagaaagcca acatgtggct cctcccagcg cgattacaaa gacgatgacg 60
ataaggcatc cgctatttaa aa 82

<210> 137
<211> 169
<212> DNA
<213> Homo sapiens

<400> 137
taatacgact cactataggg acaattacta tttacaattc tttctctaca atggcgggta 60
cacagccact tatccttgcc cagttcatgc gtgttggagg tgacgaactt ctccacttcc 120
tgctctggga ttacaaagac gatgacgata aggcatccgc tatttaaaa 169

<210> 138
<211> 190
<212> DNA
<213> Homo sapiens

<400> 138
taatacgact cactataggg acaattacta tttacaattc tcctaacacc atgatggata 60
ccataaaggg atttgaccta atcactaatt ttcaggtggt ggctgatgct ttgaacatct 120
ctttgctgcc caatccatta gcgacagcgg attacaaaga cgatgacgat aaggcatacg 180
ctatttaaaa 190

<210> 139
<211> 135
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 128
<223> n = A,T,C or G

<400> 139
tctatttaca attctcctaa cacaatggcc acttggatga aaacccttca aggattactg 60
gatagaattc aggctttccc ctccagcccc cacgattaca aagacgatga cgataaggca 120
tccgctanga aaaaa 135

<210> 140
<211> 159
<212> DNA
<213> Homo sapiens

<400> 140
ctatttacaa ttctcctaac acaatggaag ctaatagaaa acaaccgaaa ccaaataatt 60
caagcactgc ttattacaat tttactgggg tctctatttt accctcctac aagccccaga 120
ttacaaagac gatgacgata aggcatccgc tataaaaaa 159

<210> 141
<211> 118
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 112
<223> n = A,T,C or G

<400> 141
ttctatttac aattctccta acacaatggg gctcactcac ccaccacatt aacaacataa 60
aaccctcatc cacacgagat tacaaagacg atgacgataa ggcatccgct anaaaaaa 118

<210> 142
<211> 177
<212> DNA
<213> Homo sapiens

<400> 142
taatacgact catataggga caattactat ttacaattct tacttcacaa tggtgagctg 60
ctggccgatt actaaaatac cctttgtcta cagcctccgc ttctctcctg gctacgcaat 120
tgaaaagcat agcggattac aaagacgatg acgataaggc atccgctatt taaaaaa 177

<210> 143
<211> 71
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 143
taatacgact cactataggg acaattacta tttacaatth hhhhhhhaca atggctgaag 60
aacagaaact g 71

<210> 144
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 144
taatacgact cactataggg acaattacta tttacaatt 39

<210> 145
<211> 33
<212> DNA

<213> Artificial Sequence

<220>
<221> misc_feature
<222> 25, 26, 27, 28, 29, 30, 31, 32, 33
<223> n = A,T,C or G

<223> Oligonucleotide Primer

<400> 145
ggaacttgct tcgtctttgc aatcnnnnnn nnn 33

<210> 146
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> 25, 26, 27, 28, 29, 30, 31, 32, 33
<223> n = A,T,C or G

<223> Oligonucleotide Primer

<400> 146
ggatgatgct tcgtctttgt aatcnnnnnn nnn 33

<210> 147
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<221> misc_feature
<222> 36, 37, 38, 39, 40, 41, 42, 43, 44, 45
<223> n = A,T,C or G

<223> Oligonucleotide Primer

<400> 147
ggacaattac tatttacaat thhhhhhhha caatgnnnnn nnnnn 45

<210> 148
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 148
taatacgact cactataggg acaattacta tttacaatt 39

<210> 149
<211> 41

<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 149
ttttaaatag cgcatgcctt atcgtcatcg tctttgtaat c 41

<210> 150
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 150
agtatcgaat tcatgtctca gagcaaccgg 30

<210> 151
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 151
tacagtctcg agctagttga agcgttcctg gccct 35

<210> 152
<211> 28
<212> PRT
<213> Homo sapiens

<400> 152
Met Gly Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn
1 5 10 15
Arg Asp Tyr Lys Asp Asp Asp Asp Lys Ala Ser Ala
20 25

<210> 153
<211> 105
<212> DNA
<213> Homo sapiens

<400> 153
gcttccatga ggcaggctga acctgcagat atgcgcccag agatatggat cgcccaagag 60
ttgcggcgta ttggagacga gtttaacgcc tactatgcaa gggag 105

<210> 154
<211> 56
<212> DNA

<213> Homo sapiens

<400> 154
gggcaggtg gggacggcag ctcgccatca tcggggacga catcaaccga cggaaa 56

<210> 155
<211> 96
<212> DNA
<213> Homo sapiens

<400> 155
aagctgagcg agtgtctcaa gcgcatcggg gacgaactgg acagtaacat ggagctgcag 60
aggatgattg ccgccgtgga cacagactcc ccccga 96

<210> 156
<211> 138
<212> DNA
<213> Homo sapiens

<400> 156
acagggaagg aagccatact gcggaggctg gtggccctgc tggaggagga ggcagaagtc 60
attaaccaga agctggcctc ggaccccgcc ctgcgcagca agctggtccg cctgtcctcc 120
gactctttcg cccacctg 138

<210> 157
<211> 78
<212> DNA
<213> Homo sapiens

<400> 157
ctctactacc agacagagaa atatgatttg gctatcaaag accttaaaga agccttgatt 60
cagcttcgag ggaacaat 78

<210> 158
<211> 114
<212> DNA
<213> Homo sapiens

<400> 158
ggtggggaaa gtgatactga cccccacttc caggatgcgc taatgcagct cgccaaagct 60
gtggcaagtg ctgcagctgc cctggtcctc aaggccaaga gtgtggccca acga 114

<210> 159
<211> 105
<212> DNA
<213> Homo sapiens

<400> 159
ggaacacgcc aagacagaat gtttgagaca atggcgattg agattgaaca acttttggca 60
aggcttacag ggtaaatga taaaatggca gaatatacca acgct 105

<210> 160
<211> 114
<212> DNA
<213> Homo sapiens

<400> 160
gcggtacagg aggatccggt gcagcgggag attcaccagg actgggctaa ccgggagtac 60
attgagataa tcaccagcag catcaagaaa atcgcagact ttctcaactc gttc 114

<210> 161
<211> 114
<212> DNA
<213> Homo sapiens

<400> 161
gcgactcgac aggccttaaa tgagatctcg gcccggcaca gtgggatcca gcagcttgaa 60
cgcagtattc gtgagctgca cgacatattc acttttctgg ctaccgaagt gcga 114

<210> 162
<211> 84
<212> DNA
<213> Homo sapiens

<400> 162
atgttctccg acatctacgg gatccgggag atcgcggacg ggttgtgcct ggaggtggag 60
gggaagatgg tcagtaggcc agag 84

<210> 163
<211> 75
<212> DNA
<213> Homo sapiens

<400> 163
ttttggctgg aagaaaggga ctttgaggcg ggtgtttttg aactagaagc aattgttaac 60
agcatcaaaa gaagc 75

<210> 164
<211> 117
<212> DNA
<213> Homo sapiens

<400> 164
aaatgggaca cagacaatac tctagggaca gaaatctctt gggagaataa gttggctgaa 60
gggttgaaac tgactcttga taccatattt gtacatcacg tcctgcatgc cccacac 117

<210> 165
<211> 93
<212> DNA
<213> Homo sapiens

<400> 165
cgggggggcag tgttctccca ggataaggac gtcgtgcagg aggccacaaa ggtgctgagg 60
aatgctgccg acaacttcta catcaacgac agg 93

<210> 166
<211> 102
<212> DNA
<213> Homo sapiens

<400> 166

accggtacag gagcacccag attcataaag gaagtccagg aattgaactc agctctacat 60
caatcggacc taatagacat ctacagaact ctccaccccg ct 102

<210> 167
<211> 66
<212> DNA
<213> Homo sapiens

<400> 167
acaaagagca atgaactaac ccgggcagta gaggaactac acaaactttt gaaagaagct 60
agggaa 66

<210> 168
<211> 105
<212> DNA
<213> Homo sapiens

<400> 168
acctactgga acctgctgcc ccccaagcgg cccatcaaag aggtgctgac ggacatcttt 60
gccaaggtgc tggagaaggg ctgggtggac agccgctcca tccac 105

<210> 169
<211> 30
<212> DNA
<213> Homo sapiens

<400> 169
gactatgaga tgctcttcaa ctccttcagg 30

<210> 170
<211> 84
<212> DNA
<213> Homo sapiens

<400> 170
gccggggagg acatggagat cagcgtgaag gagttgcgga caatcctcaa taggatcatc 60
agcaaacaca aagacctgcg gacc 84

<210> 171
<211> 78
<212> DNA
<213> Homo sapiens

<400> 171
ggactaagag aagaaagtga agagtacatg gctgctgctg atgaatacaa tagactgaag 60
caagtgaagc aacctgca 78

<210> 172
<211> 222
<212> DNA
<213> Homo sapiens

<400> 172
aagggcatca tcagcaggtt gatgtccgtg gaggaagaac tgaagaggga ccacgcagag 60
atgcaagcgg ctgtggactc caaacagaag atcattgatg cccaggagaa gcgcattgcc 120

tcgttggatg ccgccaatgc ccgcctcatg agtgccctga cccagctgaa agagaggtac 180
agcatgcaag cccgtaacgg catctccccc accaaccccg cg 222

<210> 173
<211> 78
<212> DNA
<213> Homo sapiens

<400> 173
tgggaacgga ttgaggaaag gctggcttat attgctgatc accttggctt cagctggaca 60
gaattagcaa gagcgctg 78

<210> 174
<211> 81
<212> DNA
<213> Homo sapiens

<400> 174
gctcggggag actttgccca ggctgcccag cagctgtggc tggccctgcg ggcactgggc 60
cggcccctgc ccacctccca c 81

<210> 175
<211> 66
<212> DNA
<213> Homo sapiens

<400> 175
gtggtggatg tgccagattt tatagtctgg cttgaggagg cagtatctga tttacatagg 60
gccctc 66

<210> 176
<211> 105
<212> DNA
<213> Homo sapiens

<400> 176
ggcttttgg ctgccgagca ggacatccga gaggaaatca gaaaagttgt acagagttta 60
gaacaaacag ctcgagaggt tttaactcta ctgcaagggg tccag 105

<210> 177
<211> 135
<212> DNA
<213> Homo sapiens

<400> 177
ctggaccctg taaaggatgt tctaattctt tctgctctga gacgaatgct atgggctgca 60
gatgacttct tagaggattt gccttttgag caaataggga atctaaggga ggaaattatc 120
aactgtgcac aagcg 135

<210> 178
<211> 93
<212> DNA
<213> Homo sapiens

<400> 178

gccaacctcc tactcctcat ggtacccatt ctaatcgcaa tggcattcct aatgcttacc 60
gaacgaaaaa ttctaggcta tatacaacca cgc 93

<210> 179
<211> 90
<212> DNA
<213> Homo sapiens

<400> 179
ctccggctaa atactaccgt atggcccacc ataattaccc ccatactcct tacactattc 60
ctcatcacca accgactaat caccacccgg 90

<210> 180
<211> 78
<212> DNA
<213> Homo sapiens

<400> 180
accctctacc taaaactcac agccctcgct gtcactttcc taggacttct aacagcccta 60
gacctcaact acccaacc 78

<210> 181
<211> 132
<212> DNA
<213> Homo sapiens

<400> 181
gcgggcgtgt tctcagccga gccgtcgccg tttccacaga cccgtcgcag catggtgttt 60
gccaggcacc tgcgggaggt gggagacgag ttcaggagca gacatctcaa ctccacggac 120
gacgcagacg ag 132

<210> 182
<211> 135
<212> DNA
<213> Homo sapiens

<400> 182
ggcttaaaac ttgccacagt tgctgccagt atggacagag tgccaaaggt tactcccagc 60
agtgccatca gcagcatagc aagagagaac cacgaaccag aaagattggg cttaaatgga 120
atagcagaga caaca 135

<210> 183
<211> 78
<212> DNA
<213> Homo sapiens

<400> 183
atgcgggatc tcccaggaca ctactatgaa acgctcaaat tccttgtggg ccatctcaag 60
accatcgctg accaccgc 78

<210> 184
<211> 126
<212> DNA
<213> Homo sapiens

<400> 184
tgtgggggcc gcatggagga catcccctgc tccagggtgg gccatatcta caggaagtat 60
gtgccctaca aggtcccggc cggagtcagc ctggcccgga accttaagcg ggtggccgat 120
tggatg 126

<210> 185
<211> 111
<212> DNA
<213> Homo sapiens

<400> 185
gcgcttagtt ggatcgaaat ggacaccgag atggagatgc ttctggctag atttcgcaga 60
accccaggag acctgcattt agaccactct gtccatttgt gtgcccaccc c 111

<210> 186
<211> 33
<212> DNA
<213> Homo sapiens

<400> 186
acctccaccc taccacacat tcgaagaacc cgt 33

<210> 187
<211> 36
<212> DNA
<213> Homo sapiens

<400> 187
aacggaaatc tgttcgcttc attcatcgcc gacagt 36

<210> 188
<211> 70
<212> DNA
<213> Homo sapiens

<400> 188
gacgacatcg agtggtttgt ggccccggct gcagaaggca gccgaggctt tcaagcagct 60
gaaccagccc 70

<210> 189
<211> 96
<212> DNA
<213> Homo sapiens

<400> 189
cgcaccctgc aacccaggct tcttcaaaac caacaacagc acctgccagc cctgcccata 60
tggttcctac tccaatggct cagactgcac ccgctg 96

<210> 190
<211> 108
<212> DNA
<213> Homo sapiens

<400> 190
gctgttataa ttaacgaatt atctcagcgt gacagctgtg gtcctttgaa aattagcttg 60

aataacaaga tcctggtgta tggtaattta ttttcctctt tcaccccc 108

<210> 191
<211> 48
<212> DNA
<213> Homo sapiens

<400> 191
ggactggcta aaaaaagtaa aaggaacccg gcaaatctta ccccgcct 48

<210> 192
<211> 60
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 125, 126
<223> n = A,T,C or G

<400> 192
agctcacagg cacttagaat ccatcagtgg ctccatcttt tctcagactt cacctccacc 60

<210> 193
<211> 78
<212> DNA
<213> Homo sapiens

<400> 193
gaccaaccca taggaaaatg ggaaaagttg ttcccgttac aactttacaa aacgttacaa 60
atgctcatgt cccagatg 78

<210> 194
<211> 78
<212> DNA
<213> Homo sapiens

<400> 194
ggggtctctg aggccgaggg aacattcccg ctcagcactt tccttcttgg gatagcatcc 60
cgtctaagaa gcgtggct 78

<210> 195
<211> 93
<212> DNA
<213> Homo sapiens

<400> 195
agggcgccca gattcataaa gcaaatattg ctagatctaa agagagagat agacttcaat 60
gtgagattag tagaatactt caacccacta tca 93

<210> 196
<211> 78
<212> DNA
<213> Homo sapiens

<400> 196
atcgtggcta tcattgctgg tcgccttcgg atgttgggtg accagttcaa cggagaattg 60
gaagcttctg ccaaaaac 78

<210> 197
<211> 84
<212> DNA
<213> Homo sapiens

<400> 197
gctttggcct attacagcag ccgacagtat gcttcagcac tgaagcatat cgctgagatt 60
attgagcgtg gcatccgcca gcac 84

<210> 198
<211> 114
<212> DNA
<213> Homo sapiens

<400> 198
gctgccatgt tattagacag aagaggaact gagtgtgacc tctggataaa tgagatgtca 60
ctattacata agattgttca agatgtatat ggaactcctc acccgcccca ctcc 114

<210> 199
<211> 66
<212> DNA
<213> Homo sapiens

<400> 199
ccttggcaat acaaaccgat agctgatctt tacagaggga gagagagccg tccctctgcc 60
ccccgg 66

<210> 200
<211> 54
<212> DNA
<213> Homo sapiens

<400> 200
ctgttctcag tgttgctacg ttatttggca gataactttc tgccaggagg atcc 54

<210> 201
<211> 54
<212> DNA
<213> Homo sapiens

<400> 201
gattggcagg tgttgctagg aaaactactt tggaaaatag ataatccggg catc 54

<210> 202
<211> 66
<212> DNA
<213> Homo sapiens

<400> 202
ggtgctatgg agagagaatg ggcgatgttt ctcagggctg cttcaagcag gattaggggt 60
ggcgtg 66

<210> 203
<211> 72
<212> DNA
<213> Homo sapiens

<400> 203
gtgcataact ttgggagaca ctggggtctg cccttgagtt ttcttctcaa ttacccttta 60
ttcctcagtc cg 72

<210> 204
<211> 120
<212> DNA
<213> Homo sapiens

<400> 204
gctagcatgg ctccagtggg gagagatgca gaaacattgc aaaagcaaaa ggaaactata 60
aaagcctttc taaagaaact agaagccctc atggcaagca atgacaatgc caataaaacc 120

<210> 205
<211> 102
<212> DNA
<213> Homo sapiens

<400> 205
tgtcgggagc aggctgaact cactgggctc cgcctggcaa gcttggggtt gaagtttaat 60
aaaatcgtcc attcgtctat gacgcgcgcc atagagacca cc 102

<210> 206
<211> 66
<212> DNA
<213> Homo sapiens

<400> 206
ggcactagaa ttagtgatat gctaaaatta attgcagaca catggcagag aaattgttgc 60
cctgcg 66

<210> 207
<211> 78
<212> DNA
<213> Homo sapiens

<400> 207
gagcaggcca gtgttaagta tgttattctg gatatgtaca gagcactctt gacactaatg 60
aatacttcaa cagccaca 78

<210> 208
<211> 60
<212> DNA
<213> Homo sapiens

<400> 208
gaagacctag agagtgtgtt aataagactg atcaactggg caaaaggaag ccccatccca 60

<210> 209
<211> 75
<212> DNA
<213> Homo sapiens

<400> 209
aggccggtgt ccttttgcgg ggctgtttgg actctgaaca gggcaatagg aaggcatttt 60
gtccgaggta gcagg 75

<210> 210
<211> 87
<212> DNA
<213> Homo sapiens

<400> 210
cacgcggtgg tggcacgttt gcttcacatt ggggcaatca tgttccaacg actagacttc 60
atagaacaat tgtctgcacc cccagcg 87

<210> 211
<211> 93
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 155
<223> n = A,T,C or G

<400> 211
ggccaaggta cactttgggg aagtgggatg gaagcatggt tggcaacggt gttgaaggca 60
ctcccttggc accccacata ccagctggag ccg 93

<210> 212
<211> 84
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 147
<223> n = A,T,C or G

<400> 212
atagcacagg caacgaaagc aacaatagac aaatggaact gcatcaaact taaaatcttc 60
tacacctcaa agaaagaagc cagc 84

<210> 213
<211> 66
<212> DNA
<213> Homo sapiens

<400> 213
gtggtggatg tgccagattt tatagtctgg cttgaggagg cagtatctga tttacataga 60
gccctc 66

<210> 214
<211> 117
<212> DNA
<213> Homo sapiens

<400> 214
cagaggagag ggaatgaatt ccagctgaga gacctggccg atgcatggga tttgtcttca 60
aggtccaggc agaggggatg gcagatgcca aattgcagaa gtcgaagagg gcccgga 117

<210> 215
<211> 54
<212> DNA
<213> Homo sapiens

<400> 215
cggggcctgt gggtggacag ggtcctagag gaatggggcc tggaaccgcg gcag 54

<210> 216
<211> 84
<212> DNA
<213> Homo sapiens

<400> 216
ttcgtgaggt ctgttggctg gaggctgcag aacattggtg atgacatgga ccacgccatt 60
tgtggccatg atgtcaggct cggc 84

<210> 217
<211> 39
<212> DNA
<213> Homo sapiens

<400> 217
agtggactca gaaagccaac atgtggctcc tcccagcgc 39

<210> 218
<211> 75
<212> DNA
<213> Homo sapiens

<400> 218
gcgggtacac agccacttat ccttgcccag ttcatgcgtg ttggaggtga cgaacttctc 60
cacttcctgc tctgg 75

<210> 219
<211> 96
<212> DNA
<213> Homo sapiens

<400> 219
atggatacca taaagggatt tgacctaatc actaattttc aggtggtggc tgatgctttg 60
aacatctctt tgctgcccaa tccattagcg acagcg 96

<210> 220
<211> 66
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 128
<223> n = A,T,C or G

<400> 220
gccacttgga tgaaaaccct tcaaggatta ctggatagaa ttcaggcttt cccctccagc 60
ccccac 66

<210> 221
<211> 92
<212> DNA
<213> Homo sapiens

<400> 221
gaagctaata gaaaacaacc gaaaccaaat aattcaagca ctgcttatta caatttttact 60
ggggtctcta ttttaccctc ctacaagccc ca 92

<210> 222
<211> 49
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 112
<223> n = A,T,C or G

<400> 222
gggctcactc acccaccaca ttaacaacat aaaaccctca tccacacga 49

<210> 223
<211> 82
<212> DNA
<213> Homo sapiens

<400> 223
gtgagctgct ggccgattac taaaataccc tttgtctaca gcctccgctt ctctcctggc 60
tacgcaattg aaaagcatag cg 82

<210> 224
<211> 11
<212> PRT
<213> Homo sapiens

<400> 224
Lys Tyr Gln Gln Leu Phe Glu Asp Ile Arg Trp
1 5 10

<210> 225
<211> 16
<212> PRT

<213> Homo sapiens

<400> 225
Ile Gly Glu Glu Phe Ser Arg Ala Ala Glu Lys Leu Tyr Leu Ala Val
 1   5   10   15

<210> 226
<211> 23
<212> PRT
<213> Homo sapiens

<400> 226
Lys Ala Glu Val Gln Ile Ala Arg Lys Leu Gln Cys Ile Ala Asp Gln
 1   5   10   15
Phe His Arg Leu His Val Leu
            20

<210> 227
<211> 22
<212> PRT
<213> Homo sapiens

<400> 227
Met Gly Asp Val Val Gly Phe Ile Asp Glu Leu Glu Gly Ala Val Ser
 1   5   10   15
Asp Leu His Arg Ala Leu
            20

<210> 228
<211> 15
<212> PRT
<213> Homo sapiens

<400> 228
Thr Leu Arg His Trp Gly Leu Gln Phe Asn Thr Arg Phe Gly Val
 1   5   10   15

<210> 229
<211> 14
<212> PRT
<213> Homo sapiens

<400> 229
Ser Arg Arg Glu Glu Ala Trp Asp Ala Leu Phe Arg Gly Ile
 1   5   10

<210> 230
<211> 17
<212> PRT
<213> Homo sapiens

<400> 230
Thr Leu Arg Glu Ile Gly Asp Leu Tyr Leu Thr Ser Ile Leu Gly Arg
1 5 10 15
Arg

<210> 231
<211> 33
<212> DNA
<213> Homo sapiens

<400> 231
aaataccagc aacttttga agatattcgg tgg 33

<210> 232
<211> 48
<212> DNA
<213> Homo sapiens

<400> 232
atcggggagg agttcagccg cgctgccgag aagctttacc tcgctgtt 48

<210> 233
<211> 69
<212> DNA
<213> Homo sapiens

<400> 233
aaagcagagg tacagattgc ccgaaagctt cagtgcattg cagaccagtt ccaccggctt 60
catgtgctt 69

<210> 234
<211> 66
<212> DNA
<213> Homo sapiens

<400> 234
atgggagatg tggttggttt atagacgaa cttgaggggg cagtgtctga tttacatagg 60
gcgttg 66

<210> 235
<211> 45
<212> DNA
<213> Homo sapiens

<400> 235
acactccgac actggggatt acagttcaac acaagatttg gtgtg 45

<210> 236
<211> 42
<212> DNA
<213> Homo sapiens

<400> 236

tcgagaaggg aagaggcatg ggatgcttta tttcgtggga tc 42

<210> 237
<211> 42
<212> DNA
<213> Homo sapiens

<400> 237
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<210> 238
<211> 18
<212> PRT
<213> Homo sapiens

<400> 238
Met Pro Val Val His Leu Thr Leu Thr Thr Ala Gly Asp Asp Phe Ser
1 5 10 15
Arg Arg

<210> 239
<211> 25
<212> PRT
<213> Homo sapiens

<400> 239
Met Pro Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys Arg
1 5 10 15
Ile Gly Asp Glu Leu Asp Ser Asn Gly
20 25

<210> 240
<211> 17
<212> PRT
<213> Homo sapiens

<400> 240
Met Gly Gln Val Gly Arg Gln Leu Ala Ile Ile Gly Asp Asp Ile Asn
1 5 10 15
Arg

<210> 241
<211> 138
<212> PRT
<213> Homo sapiens

<400> 241
Met Ala Lys Gln Pro Ser Asp Val Ser Ser Glu Cys Asp Arg Glu Gly
1 5 10 15
Arg Gln Leu Gln Pro Ala Glu Arg Pro Pro Gln Leu Arg Pro Gly Ala

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            20                  25                  30
Pro Thr Ser Leu Gln Thr Glu Pro Gln Asp Arg Ser Pro Ala Pro Met
        35                  40                  45
Ser Cys Asp Lys Ser Thr Gln Thr Pro Ser Pro Pro Cys Gln Ala Phe
    50                  55                  60
Asn His Tyr Leu Ser Ala Met Ala Ser Met Arg Gln Ala Glu Pro Ala
65                  70                  75                  80
Asp Met Arg Pro Glu Ile Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly
                85                  90                  95
Asp Glu Phe Asn Ala Tyr Tyr Ala Arg Arg Val Phe Leu Asn Asn Tyr
            100                 105                 110
Gln Ala Ala Glu Asp His Pro Arg Met Val Ile Leu Arg Leu Leu Arg
        115                 120                 125
Tyr Ile Val Arg Leu Val Trp Arg Met His
    130                 135
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<210> 242
<211> 135
<212> PRT
<213> Homo sapiens

<400> 242

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Met Asp Gly Ser Gly Glu Gln Pro Arg Gly Gly Gly Pro Thr Ser Ser
 1               5                  10                  15
Glu Gln Ile Met Lys Thr Gly Ala Leu Leu Leu Gln Gly Phe Ile Gln
            20                  25                  30
Asp Arg Ala Gly Arg Met Gly Gly Glu Ala Pro Glu Leu Ala Leu Asp
        35                  40                  45
Pro Val Pro Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys
    50                  55                  60
Arg Ile Gly Asp Glu Leu Asp Ser Asn Met Glu Leu Gln Arg Met Ile
65                  70                  75                  80
Ala Ala Val Asp Thr Asp Ser Pro Arg Glu Val Phe Phe Arg Val Ala
                85                  90                  95
Ala Asp Met Phe Ser Asp Gly Asn Phe Asn Trp Gly Arg Val Val Ala
            100                 105                 110
Leu Phe Tyr Phe Ala Ser Lys Leu Val Leu Lys Ala Asp Val Val Tyr
        115                 120                 125
Asn Ala Phe Ser Leu Arg Val
    130                 135
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<210> 243
<211> 110
<212> PRT
<213> Homo sapiens

<400> 243

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Met Gly Ala Ala Met Ala Gly Gln Glu Asp Pro Val Gln Arg Glu Ile
 1               5                  10                  15
His Gln Asp Trp Ala Asn Arg Glu Tyr Ile Glu Ile Ile Thr Ser Ser
            20                  25                  30
Ile Lys Lys Ile Ala Asp Phe Leu Asn Ser Phe Asp Met Ser Cys Arg
        35                  40                  45
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Ser Arg Leu Ala Thr Leu Asn Glu Lys Leu Thr Ala Leu Glu Arg Arg
50 55 60
Ile Glu Tyr Ile Glu Ala Arg Val Thr Lys Gly Glu Thr Leu Thr Arg
65 70 75 80
Thr Val Pro Cys Cys Cys Trp Glu Val Ala Leu His Asn Thr Gly His
85 90 95
Met Gly Lys Ala Pro Ala Ala Phe Ser Ser Phe Leu Ser Pro
100 105 110

<210> 244
<211> 122
<212> PRT
<213> Homo sapiens

<400> 244
Met Ala Ala Val Leu Gln Gln Val Leu Glu Asn Ala His Ile Lys Leu
1 5 10 15
Ser Asn Leu Tyr Lys Ser Ala Ala Asp Asp Ser Glu Ala Lys Ser Asn
20 25 30
Glu Leu Thr Arg Ala Val Glu Glu Leu His Lys Leu Leu Lys Glu Ala
35 40 45
Gly Glu Ala Asn Lys Ala Ile Gln Asp His Leu Leu Glu Val Glu Gln
50 55 60
Ser Lys Asp Gln Met Glu Lys Glu Met Leu Glu Lys Ile Gly Arg Leu
65 70 75 80
Glu Lys Glu Leu Glu Asn Ala Asn Asp Leu Leu Ser Ala Thr Lys Arg
85 90 95
Lys Gly Ala Ile Leu Ser Glu Glu Glu Leu Ala Ala Met Ser Pro Thr
100 105 110
Arg Gly Gly Ile Asn Arg Gly Asn Ile Asn
115 120

<210> 245
<211> 19
<212> PRT
<213> Homo sapiens

<400> 245
Arg Trp Trp Met Cys Gly Gly Arg Met Glu Asp Met Leu Cys Cys Arg
1 5 10 15
Val Gly His

<210> 246
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<220>
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<400> 246

aactcctc 8

<210> 247
<211> 8
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<220>
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<400> 247
aatctacc 8

<210> 248
<211> 8
<212> DNA
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<220>
<223> Source Tag

<400> 248
aacaacac 8

<210> 249
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<220>
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<400> 249
aatattcc 8

<210> 250
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<400> 250
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<400> 251

ctttctct 8

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<220>
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<400> 252
cttacttc 8

<210> 253
<211> 8
<212> DNA
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<220>
<223> Source Tag

<400> 253
atttcaat 8